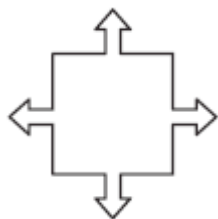


Geometry 7.3 Assignment: Rotations (pp 412–415)
Omit: 2, 12, 16, 17

1. What is your name?

Determine whether the figure has rotational symmetry. If so, describe the rotations that map the figure onto itself.

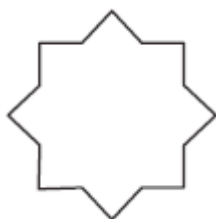
2.



3.



4.



5.



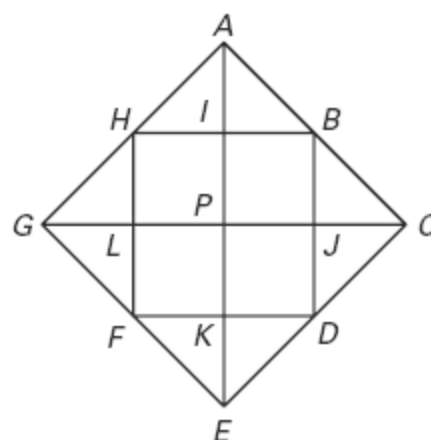
State the segment or triangle that represents the image.

6. 90° rotation of \overline{GH} about P.

7. 180° rotation of \overline{EF} about P.

8. -180° rotation of $\triangle CJD$ about P.

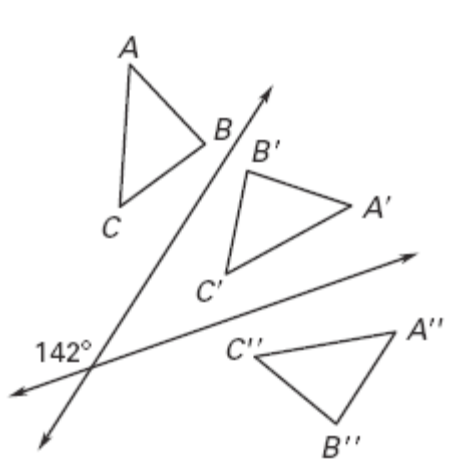
9. 90° rotation of $\triangle GLF$ about P.



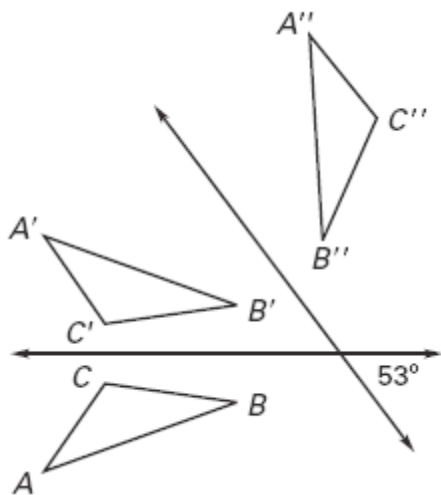
Geometry 7.3 Assignment: Rotations (pp 412–415)
Omit: 2, 12, 16, 17

Find the angle of rotation that maps $\triangle ABC$ onto $\triangle A''B''C''$.

10.



11.

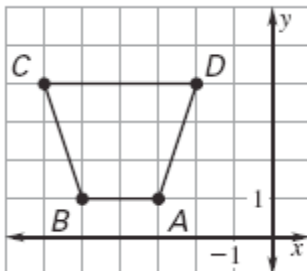


Geometry 7.3 Assignment: Rotations (pp 412–415)

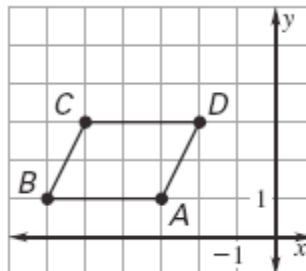
Omit: 2, 12, 16, 17

Name the coordinates of the vertices of the image after a clockwise rotation of the given number of degrees about the origin.

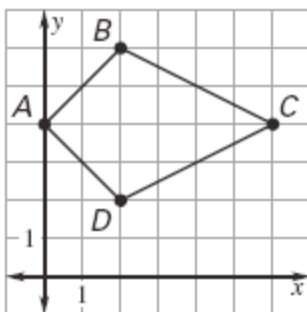
12. 90°



13. 180°



14. 270°



Review.

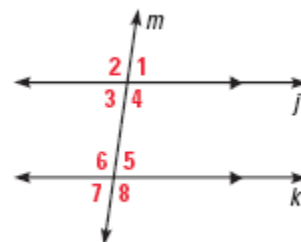
Find the measure of the angle using the diagram, in which $j \parallel k$ and $m\angle 1 = 82^\circ$. (Chapter 3 section 3.)

15. $m\angle 4$

16. $m\angle 7$

17. $m\angle 6$

18. $m\angle 8$



Geometry 7.3 Assignment: Rotations (pp 412–415)

Omit: 2, 12, 16, 17

Draw the triangle. (Chapter 5 section 2.)

19. Draw a triangle whose circumcenter lies outside the triangle.
20. Draw a triangle whose circumcenter lies on the triangle.
21. Draw a triangle whose circumcenter lies inside the triangle.

22. Can it be proven that the figure at the right is a parallelogram? If not, explain why not. (Chapter 6 section 2)

